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1 Attorney Docket No. 79476

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## 3 COUNTERMEASURE THREAT EMULATOR AND METHOD

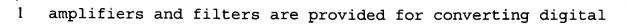
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## ABSTRACT OF THE DISCLOSURE

A system and method is disclosed for a countermeasure threat emulator. The countermeasure threat emulator is provided in a tubular housing that may be launched from a submarine or ship. The electronics of the countermeasure threat emulator include a CPU board for running software, communicating with a computer external to the tubular housing, and data recording. computer external to the tubular housing preferably incorporates a database that includes data representative of a plurality of foreign countermeasures as well as domestic countermeasures. data may be downloaded to the CPU board as well as updated for reprogramming of the CPU board. A digital signal processing board preferably utilizes a plurality of DSP processors for running the main software that is capable of producing a wide range of acoustic signal outputs. A neural network may be used for analyzing acoustic sounds from incoming threats for identification thereof and for subsequent notification to the CPU board for selection of a preprogrammed response.



- 2 streams of digital signals to analog signals for transmission by
- 3 a transducer stack.